



CDF Operations Report

All Experimenters Meeting

Nathan Eddy



Store Summary

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May 5, 2003
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Date	Store	Init L	Dur	Int L	Live L	ε
4/27	2490	35.2	13.7	1102	984	89.3%
4/28	2491	29.5	20.0	1211	973	80.4%
4/30	2495	35.6	16.0	1225	974	79.5%
5/2	2502	44.4	18.3	1646	1401	85.1%
5/3	2503	41.9	13.9	1324	1208	91.2%
5/3	2505	43.5	15.8	1498	1147	76.6%
5/4	2507	39.0	4.0	701	627	89.5%
	Totals		97.7	8707	7314	84.0%



Store Details

- **Store 2490 – 89.3%**
 - Ran smoothly until store lost on BQ7 & BQ9 trips
- **Store 2491 – 80.4%**
 - L3 Trigger problems trying to take Silicon calibration run (2 hours)
 - Store lost to BQ9 trip
- **Store 2495 – 79.5%**
 - SVT trigger problem (2 hours) – required replace boards
 - Store lost during end of store study
- **Store 2502 – 85.1%**
 - Intermittent hot Hadronic Calorimeter trigger tower at beginning of store (45 minutes)
- **Store 2503 – 91.2%**
 - Single run of 1208 nb⁻¹ with Silicon
- **Store 2505 – 76.3%**
 - L2 Trigger problem caused 3 hours of downtime



Access Work

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- **Controlled Access 4/29**
 - Recovered wedge B0W6 for SVT
- **Controlled Access 5/1**
 - Calorimeter and muon maintenance
 - After access found Shower Max crate in central calorimeter was misbehaving
 - Went back in to investigate and found jib crane had rammed into the Shower Max crate when the south muon wall was closed
 - 3 SMXR cards were replaced and crate bent back into shape
 - Currently seems to be working fine but will need to replace the crate and cables
- **Controlled Access 5/3**
 - Ran diagnostic checks on dead Silicon ladder



Getting Started

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- **Improved time to raise Silicon high voltage**
 - Bring up SVX, ISL, and L00 in parallel
 - Time went from 6 min 30 sec to 3 min 12 sec
- **Improved TeV losses**
 - Switch to faster TeV monitoring program which averages over 6 minutes instead of 10 minutes
 - Able to bring up Silicon 3-4 minutes after scraping complete
- **Able to begin physics runs with Silicon on average 7 minutes after scraping complete instead of 15 minutes**



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- Besides several isolated problems, very stable running
- Record initial Luminosity of $44.4\text{e}30$
- Record single run of 1208nb^{-1}
- All runs taken with Silicon
- Record 7.3pb^{-1} to tape of delivered 8.7pb^{-1}
- The future looks bright